

## CLAIMS

[1] An anisotropically conductive sheet formed by containing conductive particles exhibiting magnetism in a sheet base composed of an elastic polymeric substance in a state dispersed in a plane direction and oriented so as to align in a thickness-wise direction, wherein

a thickness of the sheet is 10 to 100  $\mu\text{m}$ , a number average particle diameter of the conductive particles exhibiting magnetism is 5 to 50  $\mu\text{m}$ , a ratio  $W_1/D$  of the thickness  $W_1$  to the number average particle diameter  $D$  of the conductive particles exhibiting magnetism is 1.1 to 10, a content of the conductive particles exhibiting magnetism is 10 to 40% in terms of a weight fraction, and the sheet is used for impedance measurement in a high-frequency region.

[2] The anisotropically conductive sheet according to claim 1, wherein a conductive substance exhibiting no magnetism is contained in a uniformly dispersed state.

[3] An anisotropically conductive sheet comprising, in a sheet base composed of an elastic polymeric substance, a plurality of conductive parts each containing conductive particles exhibiting magnetism at a high density and extending in a thickness-wise direction of the sheet base and an insulating part mutually insulating these conductive parts wherein

a thickness of the conductive parts is 10 to 100  $\mu\text{m}$ , a number average particle diameter of the conductive

particles exhibiting magnetism is 5 to 50  $\mu\text{m}$ , a ratio  $W_2/D$  of the thickness  $W_2$  of the conductive part to the number average particle diameter  $D$  of the conductive particles exhibiting magnetism is 1.1 to 10, a content of the  
5 conductive particles exhibiting magnetism in the conductive part is 10 to 40% in terms of a weight fraction, and the sheet is used for impedance measurement in a high-frequency region.

[4] The anisotropically conductive sheet according  
10 to claim 3, wherein a conductive substance exhibiting no magnetism is contained in the conductive parts and the insulating part in a uniformly dispersed state.

[5] The anisotropically conductive sheet according to claim 3 or 4, wherein the conductive part, which is  
15 connected to a circuit to be measured of a board to be measured, and the conductive part, which is connected to a ground circuit of the board to be measured, in an impedance-measuring probe are separated from each other by the insulating part.

20 [6] An impedance-measuring probe comprising the anisotropically conductive sheet according to any one of claims 1 to 5, wherein the probe is used in a high-frequency region.